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TO: U.S. Patent and Trademark Office  
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DATE: February 24, 2006

FROM: Michael R. Schacht

PAGES: 6 (cover sheet included)

Re: U.S. Patent Application Serial No. 10/761537  
Filed: 01/21/2004  
MOTION CONTROL SYSTEMS  
Applicant: Brown et al.  
Attorney Ref.: P214419

Attached for filing are the following:

1. Supplemental Information Disclosure Statement (3 pages)
2. PTO/SB/08A (1 page)
3. PTO/SB/08B (1 page)

The four non-patent literature references noted in the Supplemental IDS are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown above. Express Mail mail label no.: EL 993505405.

Respectfully Submitted,

By Michael R. Schacht  
Michael R. Schacht,  
Reg. No. 33,550; Cust. No. 30662

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **BROWN ET AL.**

1

Attorneys' Ref. P214419

Serial No.: 10/761,537

:

Art Unit: 2188

**Filing Date: 1/21/2004**

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**Title: MOTION CONTROL SYSTEMS**

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

VIA FACSIMILE & EXPRESS MAIL

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313**

**Sir:**

In accordance with 37 CFR §1.56, the Applicant respectfully submits this Supplemental Information Disclosure Statement to call to the attention of the Examiner the references listed on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration in the prosecution of the above-referenced application for U.S. patent.

Copies of the non-patent literature documents cited in this Supplemental Information Disclosure Statement are enclosed. Citation of a reference in this Supplemental Information Disclosure Statement is not an admission that the reference is prior art to the present invention.

It is believed that no fee is due at this time to maintain the application in full force and effect, however if any such fee is due please charge this to Deposit Account No. 502099.

## REMARKS

## I. U.S.PATENTS

U.S. Patent No. 5,291,416 to Hutchins discloses a system that automatically collects event data of a numerically controlled machine tool. The identity, data, and time of the actual occurrence of an event are stored in nonvolatile memory.

U.S. Patent No. 5,400,345 to Ryan, Jr. discloses a control mode responsive to a communications bus. The control node comprises test logic for testing the node. The node processes a first class of messages related to predetermined functions and a second class of messages comprising signals for instructing the test logic to test the node.

U.S. Patent No. 5,230,049 to Chang et al. discloses a pre-compiler for a programming language. A language dependent portion of the compiler translates supplemental language statements into a language independent format. A language independent portion translates the supplemental language statements in the language into lists of tasks.

## II. FOREIGN PATENTS

No new foreign patent references.

## III. NON-PATENT LITERATURE REFERENCES

Stewart, Schmitz and Khosla's "Implementing Real-Time Robotic Systems Using CHIMERA II", published in 1990, discloses a software system for a motion control system employing a layered hardware platform. The software system provides a communications layer and kernel that hide the complexities of specific communications and hardware implementations.

"Intelligent Real-Time Control of Robotic Vehicles", by Payton, published August 1991, ACM.; discloses the concept of Intelligent Real Time Controllers (IRTC) and discusses an example of IRTC in the context of an Adaptive Suspension Vehicle.

Blasvaer and Pirjanian's "An Autonomous Mobile Robot System", published June 8, 1994, discloses a mobile autonomous robot device using a distributed navigation system. Chapter 4 of this reference discloses a software architecture of the navigation system that uses event based communications. Chapter 6, section 7, of this reference discloses a motion executor adapted to operate in a hardware independent fashion.

Paidy and Reeve's "Software Architecture for a Cell Controller", published in 1991, discloses a software architecture for facilitating the integration of manufacturing elements of a computer integrated manufacturing system. The software system

comprises a number of software modules that handle order manipulation, scheduling, manufacturing, and support. A data acquisition system collects and stores data related to the manufacturing system.

### CONCLUSION

The Applicant respectfully submits that these references, taken alone or in combination, neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the pending application is respectfully requested. If there is any matter which could be expedited by consultation with the Applicant's attorney, such would be welcome. The Applicant's attorney can normally be reached at the telephone number below.

Signed at Bellingham, County of Whatcom, State of Washington, this 24<sup>th</sup> day of February, 2006.

Respectfully submitted,

BROWN ET AL.

By Michael R. Schacht  
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#### EXPRESS CERTIFICATE OF MAILING 37 CFR 1.10

I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08A (08-00)

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|  |   |    |   | Application Number     | 10/761,537     |
|  |   |    |   | Filing Date            | 1/21/2004      |
|  |   |    |   | First Named Inventor   | David W. Brown |
|  |   |    |   | Group Art Unit         | 2188           |
|  |   |    |   | Examiner Name          |                |
| Sheet  | 1 | of | 1 | Attorney Docket Number | P214419        |

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1. Unique citation designation number: See attached Kinds of U.S. Patent Documents. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) 4. For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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|   |      | First Named Inventor   | David W. Brown |
|   |      | Group Art Unit         | 2188           |
|   |      | Examiner Name          |                |
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| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |          |   |   |
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| Examiner Initials                                 | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T |
|   | 1        | STEWART, SCHMITZ, KHOSLA, "Implementing Real-Time Robotic Systems Using CHIMERA II", IEEE, 1990, PP.254-255, Sections 3.1 & 3.2   |   |
|   | 2        | PAYTON et al., "Intelligent Real-Time Control of Robotic Vehicles", <u>Communications of the ACM</u> , 8/1/1991, Vol. 34, No. B, pp. 49-63  |   |
|   | 3        | BLASVAER et al., "An Autonomous Mobile Robot System", 6/8/1994, Chapters 4, 6.7, Denmark  |   |
|   | 4        | PAIDY & REEVE, "Software Architecture for a Cell Controller", <u>IEEE</u> , 1991, pp. 344-345   |   |
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